DR-61. THE SYNTHESIS OF 6-PHENOXYPHENYLAMINO-2,2′-BIPYRIDINES AS NEW FLUOROPHORES

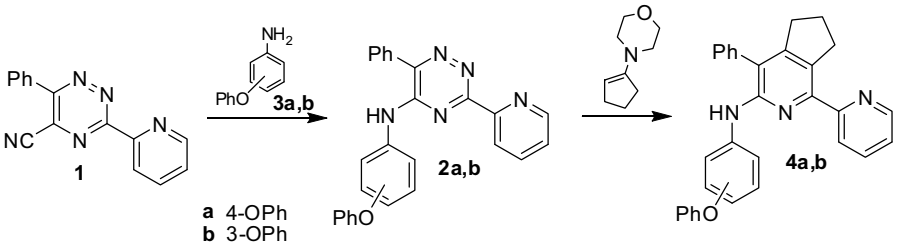
E. S. Starnovskaya[1], Y. K. Shtaitz[1], A. P. Krinochkin[1,2], A. F. Khasanov[1,2], D. S. Kopchuk[1,2], G. V. Zyryanov[1,2], V. L. Rusinov[1,2], O. N. Chupakhin[1,2]

[1] Ural Federal University of the first President of Russia B. N. Yeltsin, Mira St., 19, Yekaterinburg, 620002, Russia

[2] I. Ya. Postovsky Institute of Organic Synthesis UB RAS, S. Kovalevskoy/Akademicheskaya St., 20/22, Yekaterinburg, 620990, Russia

E-mail: katest5@yandex.ru

2,2′-Bipyridines, bearing aniline residues in the alpha position, are of interest as ligands for the preparation of platinum or copper complexes with interesting properties. In addition, they are of interest as Kinase inhibitors and inhibitors of COX-2. Earlier, we reported on the possibility of obtaining such compounds as a result of the implementation of two solvent-free reactions: *ipso*-substitution of the cyano group at position C5 of 3-(2-pyridyl)-1,2,4-triazines and further interaction with 1-morpholinocyclopentene for transformation of triazine cycle to pyridinone. At the same time, the obtained compounds showed interesting photophysical properties, which depended on the nature of the substituent introduced into the aniline fragment. In continuation of these studies in this publication, we report on the possibility of obtaining anilines with *meta*- or *para*-positions having a phenoxy group residue, which is of particular interest from the point of view of tuning photophysical properties.



This work was supported by the Russian Science Foundation (Ref. № 18-73-10119).